

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Ian C. ASHURST et al. Conf.: UNKNOWN  
Appl. No.: NEW Group: UNKNOWN  
Filed: April 14, 2004 Examiner: UNKNOWN  
For: METHOD FOR MANUFACTURING METERED DOSE INHALER

INFORMATION DISCLOSURE STATEMENT  
(SUBMISSION WITH CONTINUATION-IN-PART OR  
RULE 1.53(b) CONTINUATION OR DIVISIONAL APPLICATION)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

April 14, 2004

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, Applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-1449 form(s), attached hereto.

II. REFERENCES PREVIOUSLY CITED OR SUBMITTED

Pursuant to 37 C.F.R. § 1.98(d), consideration of information listed on the PTO-1449 form(s) is requested since any patents, publications, or other information which are listed on the PTO-1449 form(s) but for which copies are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Appl. No(s).	U.S. Filing Date(s)
10/356,591	February 3, 2003
09/570,725	May 15, 2000
08/829,562	March 31, 1997
08/584,859	January 5, 1996
08/422,111	April 14, 1995
08/584,859	January 5, 1996

III. FEES

This Information Disclosure Statement is being filed concurrent with the filing of a continuation-in-part, continuation, or divisional patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS or requires a copy of any of the references cited but not provided, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fee required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By *ma ay Beg Do 40,069*  
~~Gerald M. Murphy, Jr., #28,977~~

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GMM/las  
2801-0184PUS2

Attachment(s): ☒ PTO-1449(s)  
☐ References  
☐ Foreign Search Report  
☐ Other:

(Rev. 02/12/2004)

Form PTO-1449				ATTY DOCKET NO. 2801-0184PUS2		APPLICATION NO. New	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> (Use several sheets if necessary)				APPLICANT ASHURST, Ian C. et al.			
				FILING DATE April 14, 2004		GROUP Unknown	

  

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	Kind	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	US 3,739,950		19 Jun 1973	Gorman	222	182	
	US 5,009,959		23 Apr 1991	Matsushita et al.	428	419	
	US 6,131,566		17 Oct 2000	Ashurst et al.	128	200.14	
	US 6,511,652	B1	28 Jan 2003	Ashurst et al.	424	45	
	US 5,511,653	B1	28 Jan 2003	Britto et al.	424	45	
	US 6,524,555	B1	25 Feb 2003	Ashurst et al.	424	45	
	US						

  

FOREIGN PATENT DOCUMENTS									
	Office	DOCUMENT NUMBER	Kind	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
								YES	NO

  

OTHER DOCUMENTS	
(Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)	
	Köhler, D., 1993, "Systemic Therapy with Aerosols", Aerosols in Medicine, Principles, Diagnosis & Therapy Eds. Moren et al., Chap. 12, pp. 303-319.

  

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

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**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF AP- PROPRIATE
	3,001,524	1961-09-26	Maison et al.			
	3,209,751	1965-10-05	A. Wakeman			
	3,456,646	1969-07-22	Phillips et al.			
	6,532,955	2003-03	Ashurst et al.			
	6,546,928	2003-04	Ashurst et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
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**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)


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	6	2	5	3	7	6	2B1	Jul. 3, 2001	Britto	128/200.1 4		
	6	1	4	9	8	9	2	Nov. 21, 2000	Britto	424/45		
	6	1	4	3	2	7	7	Nov. 7, 2000	Ashurst et al.	424/45		
	5	8	9	1	4	2	0	Apr. 6, 1999	Cutie	424/46		
	5	7	3	6	1	2	4	Apr. 7, 1998	Akehurst et al.	424/45		
	5	6	2	6	9	0	7	May 6, 1997	Hagiwara et al.	427/202		
	5	6	0	5	6	7	4	Feb. 25, 1997	Purewal et al.	424/45		

## **FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
												YES	NO
	DE/19	5	0	0	7	2	6A1	Jul. 18, 1996	Germany (with English Abstract)				
	DE/04	4	3	4	4	2	5A1	Mar. 28, 1996	Germany (with English Abstract)				
	06	0	7	9	3	4	A1	Jul. 27, 1994	EP				
	06	5	7	5	1	4	B1	Jun. 14, 1995	EP (with English Abstract)				
	06	4	2	9	9	2	A2	Mar. 15, 1995	EP (with English Abstract)				
	06	4	2	9	9	2	A3	Mar. 15, 1995	EP (with English Abstract)				

## **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

	Batzar, K., 1991, "Principles of Adhesion of Fluoropolymer Coatings to Substrates", Adv. Org. Coating Sci. Tech. Ser 13:463-471.

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EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	5	5	7	6	3	8	1	Nov. 19, 1996	Bladel et al.	524/54 4		
	5	4	4	7	6	0	0	Sep. 5, 1995	Webb	216/2		
	5	4	1	1	7	7	1	May 2, 1995	Tsai	427/45 6		
	5	2	5	0	3	5	6	Oct. 5, 1993	Batzar	428/42 1		
	5	2	4	0	7	7	5	Aug. 31, 1993	Tannenbaum	428/42 2		
	5	2	3	0	9	6	1	Jul. 27, 1993	Tannenbaum	428/42 2		
	5	1	9	2	5	4	8	Mar. 9, 1993	Velasquez et al.	424/44 3		

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
												YES	NO
	04	5	5	4	6	3	A1	Nov. 6, 1995	EP				
	03	4	3	0	1	5	A3	Nov. 23, 1989	EP				
	02	9	4	7	5	5	B1	Dec. 14, 1988	EP				
	01	2	4	0	8	5		Nov. 11, 1984	EP				

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

	Budavari et al. (eds.), 1996, <u>The Merck Index</u> , 12 <sup>th</sup> Ed., Merck & Co., Inc. Pub., pgs. 170, 713, 1434.
	Budavari et al. (eds), 1989, <u>The Merck Index</u> , 11 <sup>th</sup> Ed., Merck & Co., Inc., Pub., pgs. 211/37.

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	5	1	2	6	1	2	3	Jun. 30, 1992	Johnson	424/45		
	4	9	7	2	0	3	7	Nov. 20, 1990	Garbe	526/245		
	4	9	2	3	7	6	2	May 8, 1990	Ishikawa et al.	428/551		
	4	8	0	5	7	9	5	Feb. 21, 1989	Sato et al.	220/75		
	4	7	9	5	7	7	7	Jan. 3, 1989	Higginbotham et al.	524/441		
	4	7	0	3	0	7	6	Oct. 27, 1987	Mori	524/420		

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
												YES	NO
	2	7	1	3	2	9	9	Jun. 9, 1995	France (with English Abstract)				
	1	5	7	2	8	4	2	Aug. 6, 1980	Great Britain				
	1	5	3	7	8	5	1	Jan. 10, 1979	Great Britain				
	1	4	9	8	8	3	1	Jan. 25, 1978	Great Britain				
	1	4	2	6	3	4	2	Feb. 25, 1976	Great Britain				
	1	2	3	0	3	3	9	Apr. 28, 1971	Great Britain				
	1	2	2	8	4	3	8	Apr. 15, 1971	Great Britain				

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

Elvers et al. (eds.), 1991, Ullmann's Encyclopedia of Industrial Chemistry, 5<sup>th</sup>  
Ed, VCH Verlagsgesellschaft mbH Pub., A18:380-382, 536.

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EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	4	4	8	7	8	7	8	Dec. 11, 1984	Vasta	524/413		
	4	4	0	9	3	5	4	Oct. 11, 1983	Namba et al.	524/431		
	4	3	5	1	8	8	2	Sep. 28, 1982	Concannon	428/422		
	4	2	9	7	4	4	7	Oct. 27, 1981	Yasuda	525/133		
	4	2	8	7	1	1	2	Sep. 1, 1981	Berghmans	260/29.6		
	4	2	5	2	8	5	9	Feb. 24, 1981	Concannon et al.	428/422		

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
												YES	NO
	1	0	6	4	8	4	0	Nov. 2, 1965	Great Britain				
	2	2	9	9	8	3	7	Dec. 12, 1990	Japan (with English Abstract)				
	2	2	9	8	5	4	4	Dec. 10, 1990	Japan (with English Abstract)				
	1	0	0	9	2	7	4	Jan. 12, 1989	Japan (with English Abstract)				
	63	1	9	9	2	1	1	Aug. 17, 1988	Japan (with English Abstract)				
	59	1	3	5	2	7	4	Aug. 3, 1984	Japan (with English Abstract)				
	52	1	0	6	3	8	3	Sep. 6, 1977	Japan (with English Abstract)				

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

	Kroschwitz & Howe-Grant (eds.), 1993, <u>Encyclopedia of Chemical Technology</u> , 4 <sup>th</sup> Ed., John Wiley & Sons Pub. 6:640.
	Scheirs et al., 1995, "Developments in Fluoropolymer Coatings", <i>TRIP</i> 3:3:74-82.

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EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	4	1	6	9	1	1	7	Sep. 25, 1979	Vasta	525/150		
	4	1	3	9	5	7	6	Feb. 13, 1979	Yoshimura et al.	260/857		
	4	1	2	3	4	0	1	Oct. 31, 1978	Berghmans et al.	260/29. 6		
	4	0	8	7	3	9	4	May 2, 1978	Concannon	260/29. 6		
	4	0	1	6	1	2	5	Apr. 5, 1977	Vassiliou et al.	260/29. 6		
	4	0	1	1	3	6	1	Mar. 8, 1977	Vassiliou et al.	428/422		

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
												YES	NO
	98/	3	0	2	6	2		Jul. 16, 1998	WO				
	96/	3	3	3	4	5		Oct. 17, 1996	WO				
	96/	3	2	3	4	5		Oct. 17, 1996	WO				
	96/	3	2	1	5	1		Oct. 17, 1996	WO				
	96/	3	2	1	5	0		Oct. 17, 1996	WO				
	96/	3	2	0	9	9		Oct. 17, 1996	WO				
	96/	0	9	8	1	6		Apr. 4, 1996	WO				
	94/	1	4	9	0	4		Jul. 7, 1994	WO				

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

Uno & Tanaka, 1970, "Adhesion of Suspension Particles on the Wall Surface of the Container", *Kolloid-Z.u.Z.Polymer* 242:1186-1195.

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Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)	ATTY DOCKET NO. 2801-184PUS2	APPLICATION NO. NEW
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### U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	3 9 9 3 8 4 3	Nov. 23, 1976	Vasta	428/422		
	3 9 8 4 6 0 4	Oct. 5, 1976	King et al.	428/411		
	3 9 0 4 5 7 5	Sep. 9, 1975	Satokawa et al.	260/32.8		
	3 7 0 1 6 6 5	Oct. 31, 1972	Grimes et al.	99-1		
	3 6 6 1 8 3 1	May 9, 1972	Fang	260/32.8		
	3 4 0 5 8 4 6	Oct. 15, 1968	Klun	222/402. 20		

### FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
					YES	NO
93/ 1 1 7 4 7	Jun. 24, 1993	WO				
92/ 2 2 2 8 8	Dec. 23, 1992	WO				
92/ 2 2 2 8 7	Dec. 23, 1992	WO				
91/ 0 1 1 0 6	Feb. 7, 1991	WO (with English Abstract)				
89/ 0 0 1 7 5	Jan. 12, 1989	WO				

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EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	5	4	6	8	7	9	8	11/21/1995	Leech			
	5	5	3	6	5	8	3	07/16/1996	Roberts et al.			
	4	8	9	7	4	3	9	01/30/1990	Rau et al.			
	3	9	2	9	5	3	7	12/30/1975	Erwin			
	4	9	6	1	9	6	6	10/09/1990	Stevens et al.			
	5	2	7	0	3	0	5	12/14/1993	Palmer			
	5	2	2	5	1	8	3	07/06/1993	Purewal et al.			
	5	3	7	6	3	5	9	12/27/1994	Johnson			
	5	5	0	3	1	4	4	04/02/1996	Bacon			
	5	5	0	8	0	2	3	04/16/1996	Byron et al.			
	5	6	7	4	4	7	2	10/07/1997	Akehurst et al.			
	5	6	7	4	4	7	3	10/07/1997	Purewal et al.			
	5	6	7	4	5	9	2	10/07/1997	Clark et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
												YES	NO
	1	1	9	1	7	0	0	05/13/1970	United Kingdom				
	05	6	1	9	8	7	B1	09/29/1993	Europe				
	05	6	1	9	8	1	B1	09/29/1993	Europe				

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

	G. Bukton, <i>International J. Pharm.</i> , 83, 163-170 (1992)
	<i>Journal of Teflon</i> , 4, pp. 1 and 4-6 (1963)
	<i>Journal of Teflon</i> , 1, pp. 1 and 7 (1960)

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	5	6	7	6	9	2	9	10/14/1997	Akehurst et al.			
	5	6	8	1	5	4	5	10/28/1997	Purewal et al.			
	5	6	8	3	6	7	6	11/04/1997	Akehurst et al.			
	5	6	8	3	6	7	7	11/04/1997	Purewal et al.			
	5	6	9	5	7	4	3	12/09/1997	Purewal et al.			
	5	7	2	0	9	4	0	02/24/1998	Purewal et al.			
	4	8	2	6	1	3	2	05/02/1989	Moldenhauer			
	5	2	0	2	1	1	0	04/13/1993	Dalby et al.			
	5	1	7	6	1	3	2	01/05/1993	Drought et al.			

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												YES	NO
	DE	22	5	2	7	5	4A	05/10/1973	Germany (w/Abstract)				
	DE	36	19	9	2	6	A1	01/02/1987	Germany (w/Abstract)				
	DE	41	24	7	3	0	C2	01/28/1993	Germany (w/Abstract)				
	DE	22	2	7	1	4	2A	12/13/1973	Germany (w/Abstract)				
	1	3	9	4	3	2	7	05/14/1975	Great Britain				
	WO	94	0	3	1	5	3	02/17/1994	WO				
	WO	92	0	8	4	4	6	05/29/1992	WO				
	WO	81	0	1	3	7	5	05/28/1981	PCT (w/Abstract)				

## **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

	Subhash V. Gangal, "Tetrafluoroethylene Polymers." In <u>Encyclopedia of Polymer Science and Engineering</u> (J. Wiley, 1989), vol. 16, pp. 577-642.
	"PTFE als Mittel zur Verhinderung der Adhäsion." In Manfred Reiher and Hans Scheurlen (eds.), <u>Kunststoff-Handbuch</u> (Carl Hanser Verlag, 1971), Bd. XI, sec. 4.3.6.2, pp. 362-363.

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	4	9	0	2	3	1	8	02/20/1990	Stevens et al.			
	4	6	2	6	1	5	7	12/02/1986	Franek et al.			
	2	9	8	0	3	0	1	04/18/1961	de Gorter			
	2	9	6	8	4	2	7	01/17/1961	Meshberg			
	2	8	9	2	5	7	6	06/30/1959	Ward			
	2	8	8	6	2	1	7	05/12/1959	Thiel			
	2	7	2	1	0	1	0	10/18/1955	Meshberg			
	3	0	4	9	2	6	9	08/14/1962	Gawthrop			
	3	0	5	2	3	8	2	09/04/1962	Gawthrop			
	4	8	1	9	8	3	4	04/11/1989	Thiel			
	4	4	0	7	4	8	1	10/04/1983	Bolton et al.			

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	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
												YES	NO
	03	3	8	6	7	0	A2	10/25/1989	Europe				
	22	6	7	4	9	6	A	11/07/1975	France				
	03	3	5	3	1	5	A1	10/04/1989	Europe				
	93	1	1	7	4	4	A1	06/24/1993	WO				
	93	1	1	7	4	5	A1	06/24/1993	WO				

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	Richard L. Johnson, "Fluorine Compounds, Organic." In <u>Kirk-Othmer Encyclopedia of Chemical Technology</u> , 3d ed. (J. Wiley, 1980), vol. 11, pp. 1-49.
	Byron, Respiratory Drug Delivery, CRC Press, Inc., FL, 167-201 (1990)
	Budavari, The Merck Index, Eleventh Ed., Merck & Co., Inc., pp. 37, 158-159 and 663-664 (1989)
	Henry, The British Medical Assoc. Guide to Medicines & Drugs, Dorling Kindersley, London, p. 137 (1992)
	R. Dalby et al., <i>Pharmaceutical Technology</i> , pp. 26-33, March 1990
	"ICI Aims for 134a Lead," <u>Chemistry and Industry</u> (June 6, 1988), p. 347.

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Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)	ATTY. DOCKET NO. <b>2801-184PUS2</b>	APPLICATION NO. <b>New</b>
APPLICANT <b>Ian C. Ashurst et al.</b>		
FILING DATE <b>April 14, 2004</b>		GROUP <b>Unknown</b>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	5 1 6 8 1 0 7	12/01/1992	Tannenbaum			
	4 1 8 0 6 0 9	12/25/1979	Vassiliou			
	2 5 6 2 1 1 8	07/24/1951	Osdal			
	4 1 4 3 2 0 4	03/06/1979	Fang			
	4 1 2 5 1 5 2	11/14/1978	Kestner et al.			
	5 2 6 1 5 3 8	11/16/1993	Evans et al.			
	4 9 9 2 4 7 4	02/12/1991	Skidmore et al.			
	5 3 4 5 9 8 0	09/13/1994	Burt et al.			
	5 4 2 1 4 9 2	06/06/1995	Barger et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
					YES	NO
91 0 4 0 1 1 A1	04/04/1991	WO				
05 0 4 1 1 2 A2	09/16/1992	Europe				
2 2 5 2 7 5 4	10/27/1972	Germany				
3 6 1 9 9 2 6	06/13/1986	Germany				

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		John J. Sciarra and Anthony J. Cutie, "Pharmaceutical Aerosols." In Leon Lachman, et al. (eds.), <i>The Theory and Practice of Industrial Pharmacy</i> (Lea & Febiger, 1986), ch. 20, pp. 589-618.
		A. R. Gennaro, <i>Remington's Pharmaceutical Sciences</i> , Mack Publishing Co., Inc., pp. 1670-1677 (1985)
		Fundamentals of Polymer Adhesion, Chapter VIII, "Adhesion of Polymers to Substrates of an Inorganic Nature", pp. 289-230, 1974 (with English Translation)

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EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	3	5	0	6	7	3	7	04/14/1970	Smith et al.			
	3	6	1	1	9	9	0	10/12/1971	Paoletti et al.			
	3	8	9	6	6	0	2	07/29/1975	Petterson			
	3	9	6	2	1	7	1	06/08/1976	Robbins			
	4	0	8	7	0	2	6	05/02/1978	Petterson			
	4	3	3	9	4	8	3	07/13/1982	Ueno et al.			
	4	4	2	3	8	2	3	01/03/1984	Franek et al.			
	4	7	4	1	9	3	4	05/03/1988	Terayama et al.			
	4	8	6	1	6	4	7	08/29/1989	Ishikawa et al.			
	4	9	4	5	0	0	8	07/31/1990	Heyes et al.			

**FOREIGN PATENT DOCUMENTS**

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	0	6	4	2	9	9	2	03/15/1995	Europe				
	9	4	2	2	7	2	2	10/13/1994	WO				

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	4	9	6	9	5	7	7	11/13/1990	Werdning			
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	5	0	4	3	1	9	1	08/27/1991	Endres et al.			
	5	0	6	1	1	4	0	10/29/1991	Hamaguchi et al.			
	5	2	2	1	5	7	6	06/22/1993	Bosc et al.			
	5	3	4	0	4	6	3	08/23/1994	Layre et al.			

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	9	4	0	0	9	2	1	06/01/1994	WO				
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	0	3	8	4	6	0	6	08/29/1990	Europe				
	0	4	6	5	7	4	1	01/15/1992	Europe				
	0	4	8	7	2	0	0	05/27/1992	Europe				

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	0	1	6	8	4	8	3	05/28/1976	Hungary				
	1	3	9	2	1	9	2	04/30/1975	Great Britain				
	9	3	1	1	7	4	3	06/24/1993	WO				

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## **U.S. PATENT DOCUMENTS**

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	4	3	3	5	1	2	1	06/15/1982	Phillips et al.			
	5	2	0	8	2	2	6	05/04/1993	Palmer			

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	1	5	8	8	4	6	3	08/26/1976	Great Britain				
	2	2	1	4	8	9	1	09/13/1989	Great Britain				
	2	0	0	3	4	1	5	08/22/1978	Great Britain				
	2	2	1	6	7	9	4	10/18/1989	Great Britain				
	4	0	2	3	9	0	9	07/27/1990	Germany				
	4	0	0	9	3	9	7	03/23/1990	Germany				
	2	1	3	0	8	6	7	08/25/1994	Canada				
	01	0	0	9	1	5	8	01/12/1989	Japan				
	01	2	1	4	4	3	3	08/28/1989	Japan				
	02	0	6	7	3	7	4	03/07/1990	Japan				

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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	5 5 9 7 4 3 3	01-28-1997	Dyble et al.			
	3 6 4 4 3 5 3	11/1972	Lunts et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
					YES	NO
04 3 5 3 4 4 2	12/08/1992	Japan				
03 0 9 3 5 2 5	04/18/1991	Japan				
06 1 4 2 7 9 9	05/24/1994	Japan				
9 2 1 1 1 9 0	07/09/1992	WO				
9 1 1 0 6 0 6	07/25/1991	WO				
9 3 1 1 7 4 3	06/24/1993	WO				
0 3 4 3 0 1 5	11/23/1989	Europe				
0 1 9 6 3 0 3	11/28/1988	Hungary				
8 6 0 4 2 3 3	07/31/1986	WO				
0 2 0 8 3 9 8	10/28/1993	Hungary				
B 0 1 2 1 8 8	09/17/1992	Australia				
0 2 0 9 6 0 9	05/31/1994	Hungary				

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